

# ***Simplicity***<sup>®</sup>

**OWNER'S MANUAL  
&  
PARTS LIST**

## **32" Rotary Snow Thrower**



**Mfr's. No. 419  
(Requires Slow Speed Kit)**

Litho in USA

**2345678910**

**SIMPLICITY MANUFACTURING COMPANY, INC.**

**1285**

### CAUTION

When using your Sno Away, please pay extra-ordinary attention to the safety of "small children"! Never allow small children to stand in front of the rotor or in the path of snow discharge. Stones, or solid pieces of ice, flipped forward by the rotor or flung out of the discharge spout may and can cause severe injury to anyone standing or playing in their path. Never allow children to approach revolving rotor. Avoid accidental injury by keeping small children completely away from the equipment.

**NOTE:** It is the operators obligation to avoid any foreign material or obstructions in the snow. Bear in mind that pieces of pipe, rocks, lumber, wire, rags, etc., may jam the rotor and damage it or the drive belts. Be prepared to disengage the rotor clutch quickly if that should happen. If the rotor should jam on alien material, be sure to shut off the engine before attempting to remove the obstruction.



Remember...

### FOR YOUR SAFETY

1. ALWAYS STOP ENGINE BEFORE LEAVING MACHINE
2. ALWAYS STOP ENGINE BEFORE SERVICING OR ADJUSTING MACHINE OR EQUIPMENT
3. ALWAYS KEEP HANDS, FEET AND CLOTHING AWAY FROM POWER-DRIVEN PARTS

### OPERATION

Operation of the rotor is controlled by the position of the power take-off lever located on the left side of the tractor. To engage the power take-off and start the rotor spinning, pull back on the power take-off lever until it reaches engaged position. Bear in mind that the rotor will be revolving as long as the power take-off is engaged and the tractor engine is running. Exercise caution at all times and never attempt to remove snow or ice from the rotor housing or discharge spout unless the power take-off is released and the tractor engine is stopped.

The skid shoes on each side of the rotor housing are adjustable either up or down, to suit the surface over which the snow blower is to be operated. For a smooth surface, loosen the nuts and set the shoes so that the lower edge of the rotor housing rides on the surface. For use over an uneven or rough surface, adjust the shoes for maximum lift.

When using the snow thrower, set the discharge spout so that the snow will be thrown with the wind and never into the wind. Throwing snow into the wind will be a source of discomfort to the operator. To alter the direction of discharge, rotate the spout by means of the spout adjusting handle. The distance that the snow may be thrown may be adjusted by loosening the two wing nuts on the discharge spout extension and raising or lowering the extension to give the desired angle. After adjusting, push the extension snugly against the spout assembly to prevent snow from being blown backwards against the tractor and operator. Slotted holes beneath the wing nuts will allow this to be done before tightening the wing nuts to hold the extension in the desired position.

When operating through excessively heavy drifts of snow, pull back on the lift lever and raise the snow thrower while taking the first pass through the drift. Then back off and lower the snow thrower and go through again. After the first path through the drift has been opened, it may be convenient to use only a portion of the width of the snow thrower on succeeding passes. Naturally, efficient plowing methods will vary from one snowfall to another and from location to location and the operator must judge for himself which methods produce the best results.

When transporting the snow thrower from one location to another, disengage the power take-off and pull the lift lever back to the latched position and carry snow thrower in raised position.

### STORAGE

After completion of plowing operation, allow the tractor engine to operate in a sheltered area for about 5 minutes to dry itself and prevent the formation of ice. When possible, store the snow thrower in a cold area so that clinging snow will not melt and re-freeze into ice.

### LUBRICATION

The snow thrower is equipped with one grease fitting that will require an occasional lubrication with a general purpose automotive grease. This fitting is located on the bearing housing that supports the rotor drive pulley, between the pulley and the chain sprocket.

The bearings on the rotor shaft are a sealed type and do not require further lubrication. An occasional application of light motor oil to the ends of the rotor shaft will aid in prolonging the life of the bearing seals.

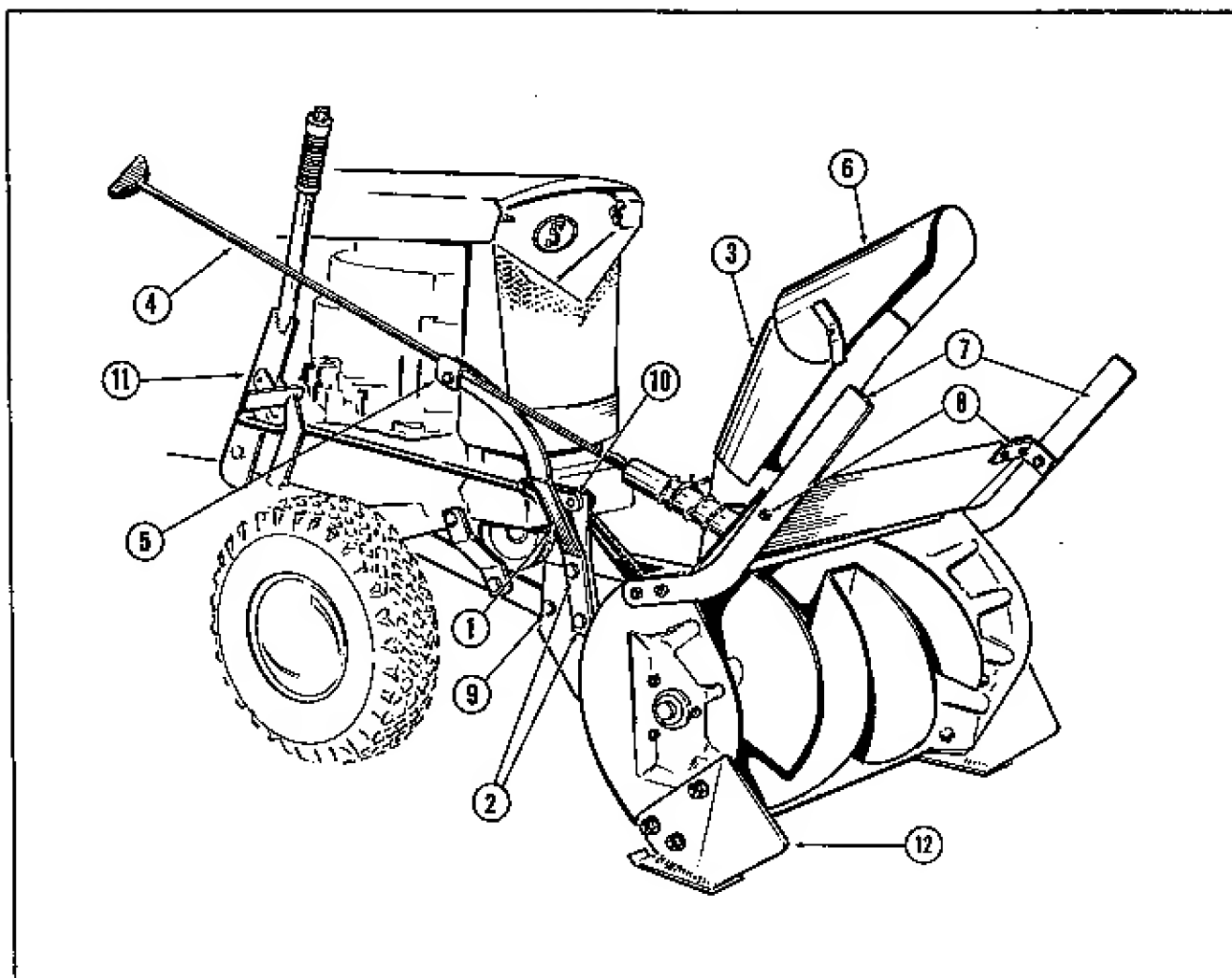


Figure 1

#### DISCHARGE SPOUT

Attach shoes #12 as shown in Fig. 1 using the 3/8"-16 x 3/4" carriage bolts, plain washer, lockwasher and nut. Apply a coating of light oil to the neck of the discharge spout mounting collar, and install the spout, #3, Fig. 1, in place on the rotor housing as shown. The application of oil is necessary to prevent rust and to allow the spout to rotate freely.

Attach the spout control rod support bracket #1, Fig. 1, with two 3/8"-16 x 1" lg. hex capscrews and 3/8" lockwashers and 3/8"-16 hex nuts. Refer to #2, Fig. 1.

#### SPOUT CONTROL ROD

Insert the end of the spout control rod, #4, Fig. 1, through the bearing and secure with a cotter pin on both sides of the bearing. The upper end of the spout control rod is fastened to the spout control rod support bracket, #1, Fig. 1, using a rod guide, #5, Fig. 1, with liner and one 5/16"-18 x 1 1/4" lg. hex capscrew and 5/16"-18 hex lock nut.

#### SPOUT CORD SYSTEM

With the spout facing forward, and the clamp on the cord drive tube facing away from the spout assembly, install cord as shown on page 8. Place the clamp over the stud and clamp the cord to the spout using a 5/16"-18 hex nut and 5/16" lockwasher. After a period of operation recheck the tension of the cord system and reposition the half-hitches if required to maintain proper tension in the cord system.

#### SPOUT EXTENSION

Fasten the spout extension #6, Fig. 1, to the spout assembly using two 5/16"-18 x 3/4" lg. carriage bolts, 3/8" special hex-agon lockwashers, 3/8" plain washers and wing nuts. Adjust to suit.

#### HEAT DEFLECTOR

Install heat deflector over muffler with clamp as shown on page 8.

## DRIFT CUTTERS

Attach the two drift cutters #7, Fig. 1, to the outside of the rotor housing. Assemble the right and left hand drift cutters loosely to the rotor housing as shown in Fig. 1, using two 3/8"-16 x 3/4" lg. hex capscrews and 3/8" lockwashers, and 3/8"-16 hex nuts. Note that the cutters are attached to the outside of the rotor housing, and that the heads of the capscrews are on the inside of the rotor housing also. Loosely attach the cutter brackets #8, Fig. 1, to the upper front edge of the rotor housing with two 5/16"-18 x 3/4" lg. hex capscrews, 5/16" lockwashers, and 5/16"-18 hex nuts. Now attach the brackets to the drift cutters, using a 5/16"-18 x 3/4" lg hex capscrew, and 5/16" lockwasher and 5/16"-18 hex nut. Tighten securely all the capscrews and nuts used in attaching the drift cutters.

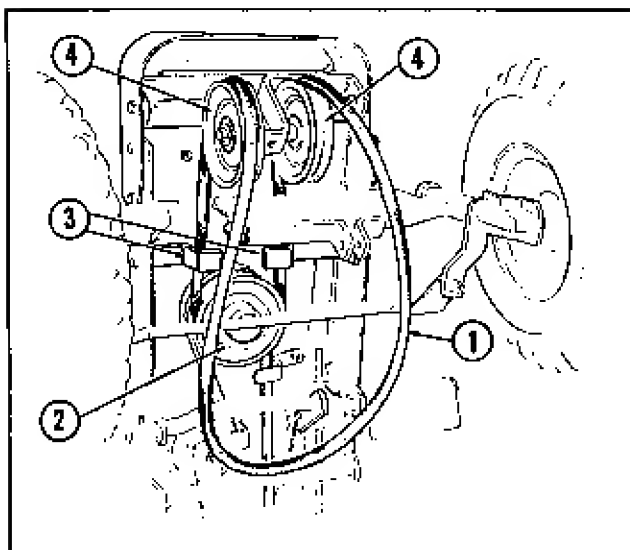
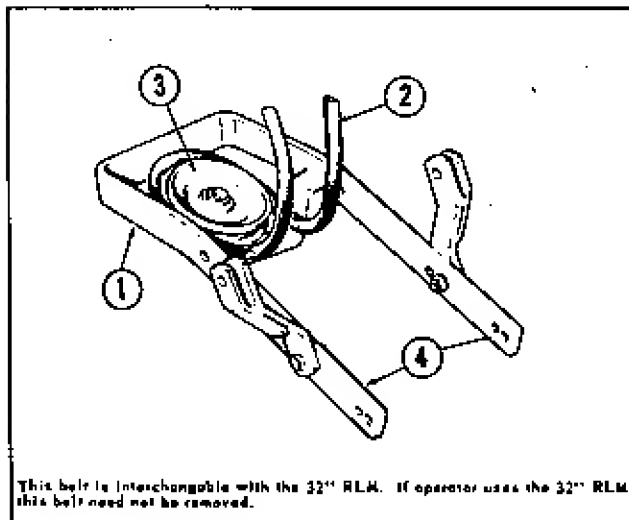


Figure 3

## ROTOR DRIVE BELT

Place the rotor drive belt #1, Fig. 3, in position on the lower groove of the engine pulley #2, Fig. 3, as shown. (Fig. 3 is an illustration of the tractor under-side). Note the position of the belt in relation to the belt-guide fingers #3, Fig. 3. After passing around the engine pulley and between the belt-guide fingers, give the belt a suitable "twist" that it may fit properly to the groove of the power take-off pulleys #4, Fig. 3.



This belt is interchangeable with the 32" RLM. If operator uses the 32" RLM, this belt need not be removed.

## HITCH

Assemble the pulley #3 Fig. 4, to hitch assembly as shown on Page 10. Place the hitch #1, Fig. 4, under the front end of the tractor with arms #4, Fig. 4, facing forward. Loop the slack end of the V-belt #2, Fig. 4, around the pulley #3, Fig. 4, of the hitch and mount the hitch to the under-side of the tractor as shown in Fig. 5. The hitch is suspended beneath the tractor at points #1 & #2 shown in Fig. 5 (on both sides of tractor) using pins and spring clips. Attach at point #1, Fig. 5, first and then at point #2, Fig. 5. If required for hole alignment, loosen the bolts #3, Fig. 5, and reposition the arms #4, Fig. 5, to suit.

Pull the belt to bring all slack forward on the left side of the tractor as shown at #5, Fig. 5.

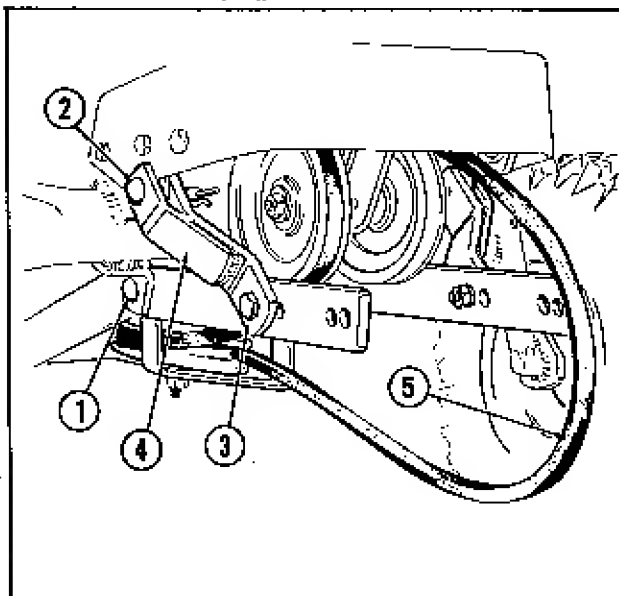


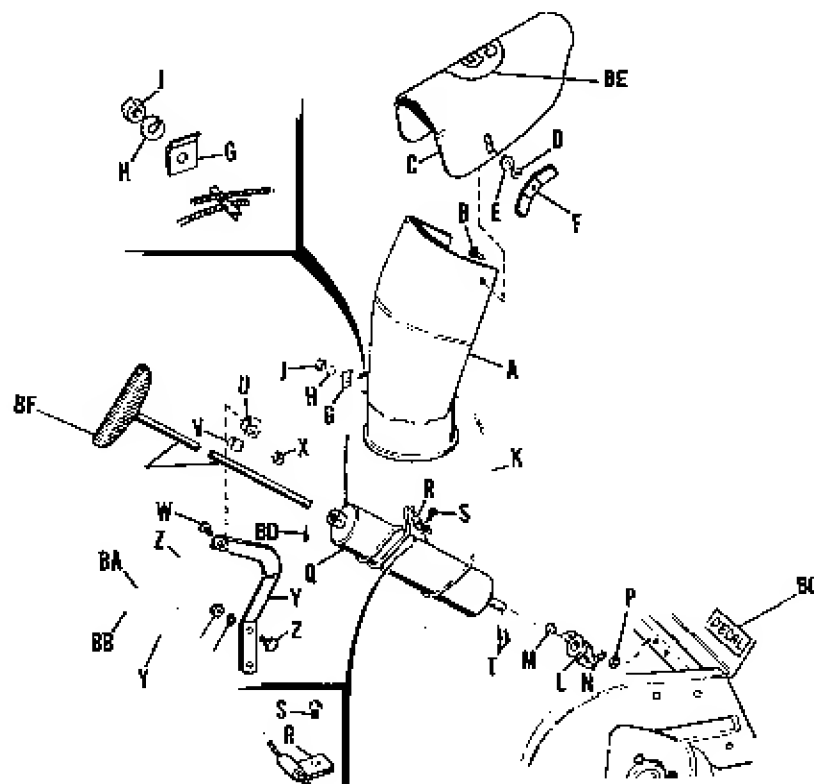
Figure 5

Place rotor housing in position at front end of hitch and connect to the hitch with a pin #9, Fig. 1, and spring clip on both sides of the hitch. Install the slack end of drive belt in place around the rotor drive pulley. Adjust pulley #3 Fig. 4, for proper belt tension.

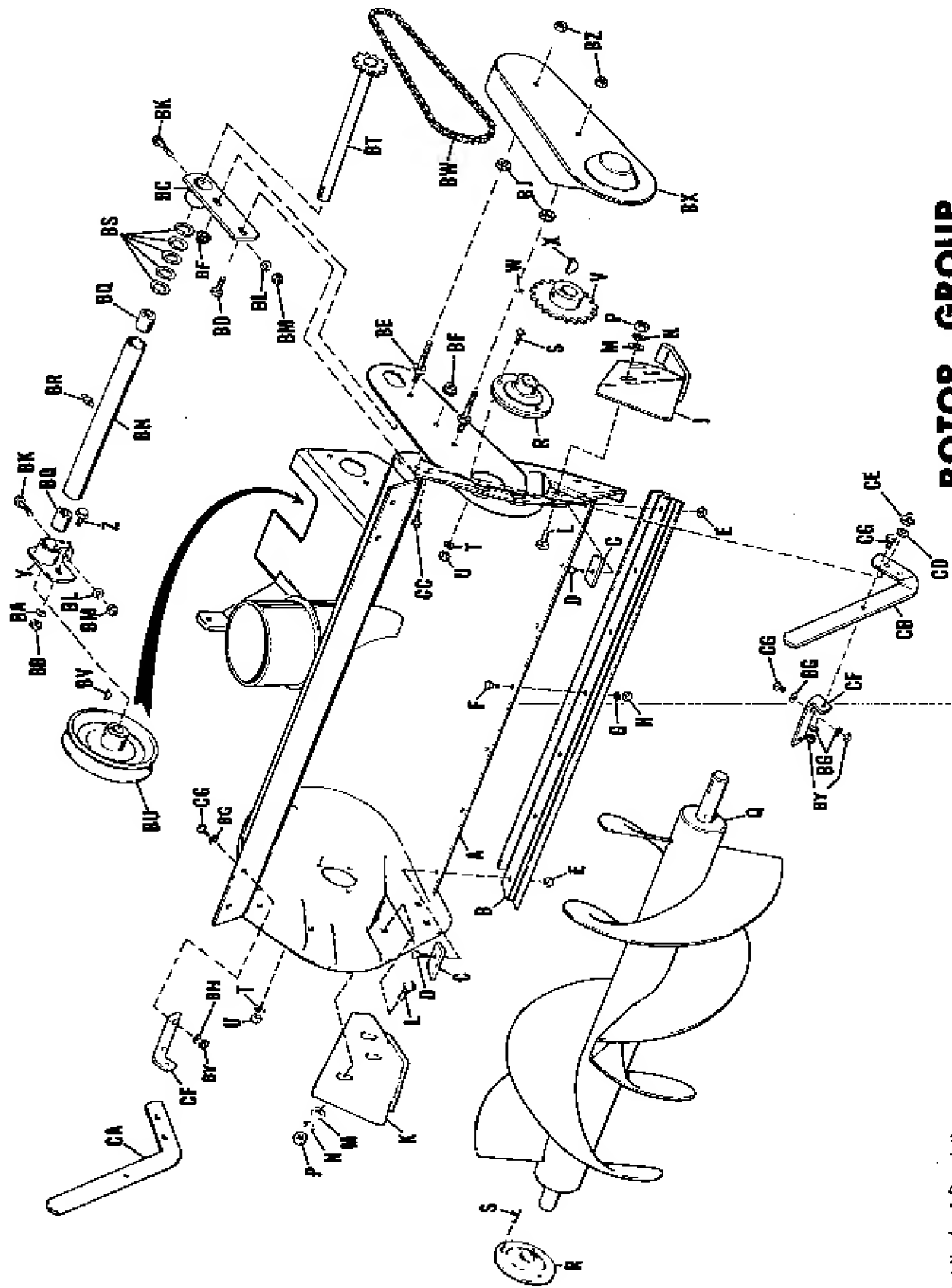
## LIFT ROD

Connect one end of the lift rod #10, Fig. 1, to the lift bracket on the rotor housing, using a spring clip. The other end of the lift rod is connected to the lift lever #11 Fig. 1, on the tractor, and is secured with a spring clip.

# 



Ref. Let.	Part No.	Description
A	106338	Spout Assembly
B	703005	Carriage Bolt, 5/16"-18 x 3/4"
C	106489	Spout Extension
D	719001	Washer, Plain 3/8"
E	721601	Washer, Lock 3/8"
F	106229	Wing Nut
G	121042	Plate
H	720001	Washer, Lock 5/16"
J	717001	Nut, Hex Full 5/16"-18
K	106490	Spout Cord
L	106491	Bearing
M	705015	Capscrew, Hex, 1/4"-20 x 5/8"
N	720003	Washer, Lock 1/4"
P	717005	Nut, Hex, Full 1/4"-20
Q	106603	Tube Assembly, Spout Control
R	154247	Clamp
S	714016	Self-Tapping Screw, 1/4"-20 x 3/8"
T	722016	Cotter Pin, 1/8" x 3/4"
U	152050	Guide, Rod
V	121175	Liner, Guide
W	705018	Capscrew, Hex, 5/16"-18 x 1/2"
X	717511	Nut, Hex, Full, Lock, 5/16"-1
Y	106499	Rod Guide Support
Z	705005	Hex. Capscrew 3/8-16 x 1"lg.
BA	720002	Lock Washer, 3/8"
BD	717003	Hex Nut, Full, 3/8"-16
BC	106606	Handle Assembly
BD	722015	Cotter Pin 5/32 x 1"lg.
BE	106512	Decal
BF	106516	Cover Handle
BG	103931	Decal



# **ROTOR GROUP**

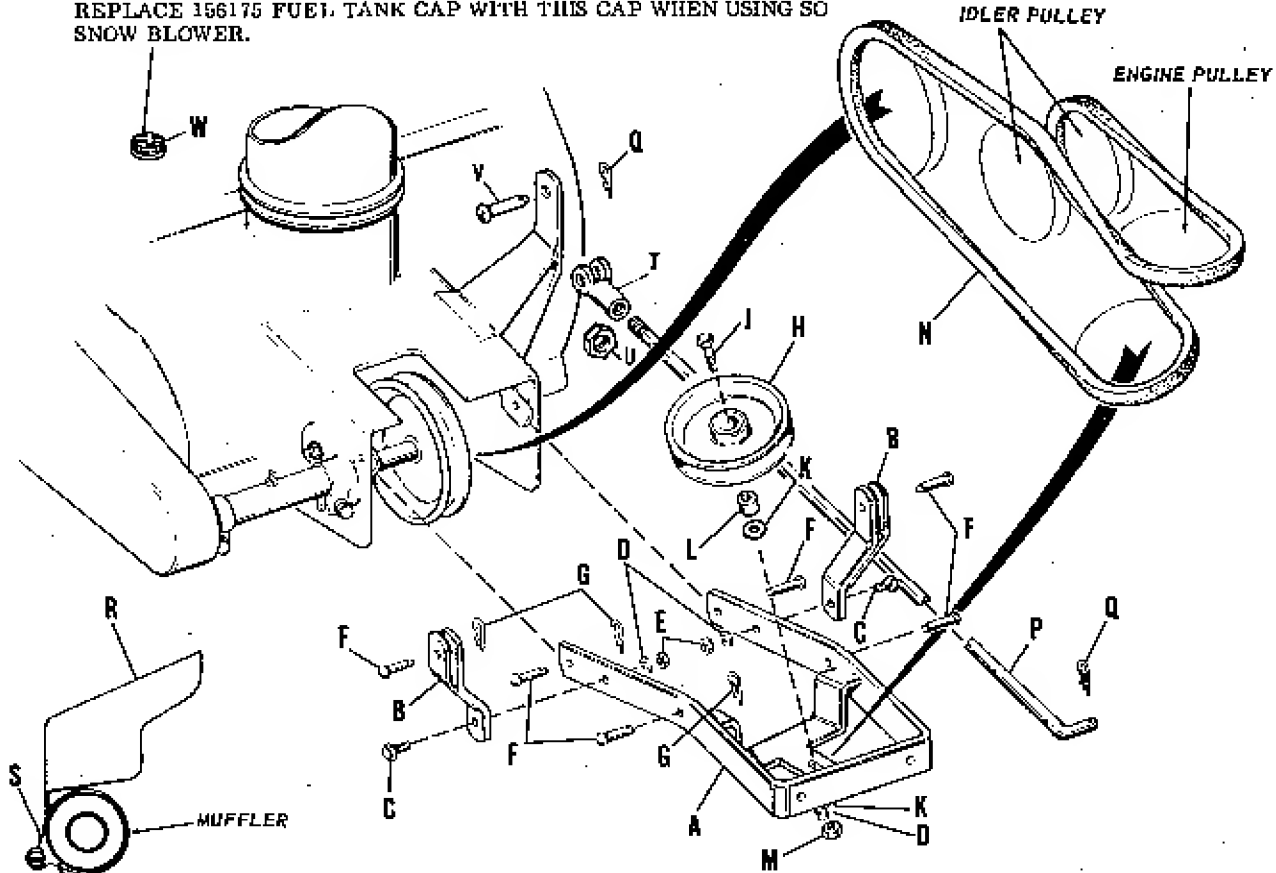
Order by Part Number & Description

# ROTOR GROUP

Ref. Letter	Part No.	Description
A	106462	Body Assembly
B	106488	Body Scraper
C	106137	Scraper Clamp
D	715073	Hex Capscrew, 5/16"-18 x 7/8" lg.
E	717511	Hex Lock Nut, Full, 5/16"-18
F	715018	Hex Capscrew, 1/4"-20 x 5/8" lg.
G	720003	Lock Washer, 1/4"
H	717005	Hex Nut, Full, 1/4"-20
J	106610	Shoe Assembly, Left Hand
K	106612	Shoe Assembly, Right Hand
L	703004	Carriage Bolt, 3/8"-16 x 3/4" lg.
M	719001	Plain Washer, 3/8"
N	720002	Lock Washer, 3/8"
P	717003	Hex Nut, Full, 3/8"-16
Q	106511	Rotor Assembly
R	106532	Ball Bearing
S	705017	Hex Capscrew, 5/16"-18 x 3/4" lg.
T	720001	Lock Washer, 5/16"
U	717001	Hex Nut, Full, 5/16"-18
V	106475	Rotor Sprocket
W	713503	Set Screw, Socket Hd., Cup Pt., 5/16"-18 x 5/16" lg.
X	151040	Hi Pro Key
Y	106476	Clamp Support Assembly
Z	705005	Hex Capscrew, 3/8"-16 x 1" lg.
BA	720002	Lock Washer, 3/8"
BB	717003	Hex Nut, Full, 3/8"-16
BC	106479	Clamp Support Assembly
BD	705005	Hex Capscrew, 3/8"-16 x 1" lg.
BE	106481	Stud
BF	718035	Whizlock Nut 3/8-16
BG	719002	Plain Washer, 5/16"
BH	720001	Lock Washer, 5/16"
BJ	717510	Hex Lock Nut, Full, 3/8"-16
BK	705018	Hex Capscrew, 5/16"-18 x 1-1/2" lg.
BL	720001	Lock Washer, 5/16"
BM	717001	Hex Nut, Full, 5/16"-18
BN	106482	Bearing Housing
BQ	154258	Needle Bearing
BR	727002	Grease Fitting, #1641 Alemite
BS	8061012	Washer
BT	106483	Shaft Assembly
BU	106485	Pulley
BV	725003	Woodruff Key
BW	106486	Chain, w/Conn. Link
BX	106487	Chain Guard
BY	717001	Hex Nut, Full, 5/16"-18
BZ	718035	Whizlock Nut 3/8-16
CA	106417	Drift Cutter, Right Hand
CB	106418	Drift Cutter, Left Hand
CC	705004	Hex Capscrew, 3/8"-16 x 3/4" lg.
CD	720002	Lock Washer, 3/8"
CE	717003	Hex Nut, Full, 3/8"-16
CF	106508	Bracket
CG	705017	Hex Capscrew, 5/16"-18 x 3/4" lg.

# HITCH GROUP

REPLACE 156175 FUEL TANK CAP WITH THIS CAP WHEN USING SO SNOW BLOWER.



Order by Part Number & Description

Ref. Letter	Part No.	Description
A	106500	Push Arm Assembly
B	106504	Support Arm Assembly
C	705016	Hex Capscrew, 3/8"-16 x 1-1/4" lg.
D	720002	Lock Washer, 3/8"
E	717003	Hex Nut, Full, 3/8"-16
F	156306	Pin
G	106788	Spring Clip
H	191096	Pulley
J	705010	Hex Capscrew, 3/8"-16 x 1-3/4" lg.
K	719001	Plain Washer, 3/8"
L	154177	Spacer
M	717003	Hex Nut, Full, 3/8"-16
N	106723	"V" Belt
P	107079	Front Lift Rod
O	106788	Spring Clip
R	108714	Deflector
S	106715	Clamp
T	151304	Adj. Yoke
U	717008	Hex Nut, Full, 1/2"-20
V	151305	Yoke Pin
W	106798	Cap (Winter) Fuel Tank



## WARRANTY

The company warrants Simplicity Products to be free from defects in material and workmanship except the company makes no warranty express or implied with respect to tires, engines and engine accessories which generally are warranted by their respective manufacturers. Any part covered by this warranty which is proven defective within one year, under normal use, from date of purchase, will be replaced free of charge, f.o.b. Port Washington, Wisconsin, provided such part is returned to factory transportation charges prepaid and is found to be defective upon examination at the factory. The company is not obligated under this warranty to bear cost of labor or delivery charges in replacement of defective parts. This warranty does not apply to any Simplicity Products altered outside of Simplicity's factory. Such replacement of defective parts shall be the exclusive remedy and in no event shall Simplicity be liable for consequential damages. EXCEPT AS SPECIFICALLY PROVIDED HEREIN, THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON ANY SIMPLICITY PRODUCT.

Should warranty service be necessary, the information below should be presented to the authorized SIMPLICITY Dealer.

Customer's Name \_\_\_\_\_

Address \_\_\_\_\_

Mfg. No. \_\_\_\_\_ Serial No. \_\_\_\_\_

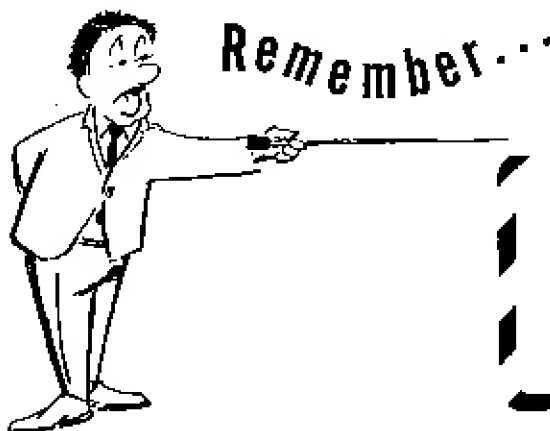
Date Purchased \_\_\_\_\_

Purchased From \_\_\_\_\_

Address \_\_\_\_\_

Engine Model No. \_\_\_\_\_ Serial No. \_\_\_\_\_ Type No. \_\_\_\_\_

To obtain replacement parts from dealer, advise quantity, part number and description.



### FOR YOUR SAFETY

1. ALWAYS STOP ENGINE BEFORE LEAVING MACHINE
2. ALWAYS STOP ENGINE BEFORE SERVICING OR ADJUSTING MACHINE OR EQUIPMENT
3. ALWAYS KEEP HANDS, FEET AND CLOTHING AWAY FROM POWER-DRIVEN PARTS

## **SAFE SNOW REMOVAL IS NO ACCIDENT**

Improper use of snow removal equipment on the part of the operator can result in injury. To reduce this possibility, give complete and undivided attention to the job at hand.

Protect Yourself and Others By Following These Safety Tips

1. Disengage power and stop motor before cleaning discharge, removing obstacles, making adjustments, or when leaving operating position.
2. Never direct discharge at bystanders nor allow anyone in front of machine -- debris may be hidden in the snow.
3. Keep children and pets a safe distance away.
4. Do not allow children to operate machine nor allow adults to operate it without proper instructions.
5. Adjust height to clear gravel or crushed rock surface.
6. Exercise caution to avoid slipping or falling, especially when operating in reverse.
7. Know the controls and how to stop quickly -- read the owner's manual.
8. Handle gasoline with care -- it is highly flammable.
  - a. Use approved gasoline container.
  - b. Never add gasoline to a running motor -- (if) tank out of doors and wipe up spilled gasoline.
  - c. Replace gasoline cap securely.
  - d. Open doors if motor is run in garage -- exhaust gases are dangerous
9. Disengage all clutches and shift into neutral before starting motor. Keep hands, feet and clothing away from power driven parts.
10. Use a grounded three wire extension cord for all plug-in electric units.
11. Keep machine in good operating condition and keep safety devices in place.



